

Q

7S	24E	21	CHEVRON USA INCORPORATED
----	-----	----	--------------------------

FILE NOTATIONS

Entered in MID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Well Completed
..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected ..
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-E..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CCLog..... Others.....

MS
5-1-90

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR
P. O. Box 599, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 2413' FSL and 252' FEL (NW 1/4 SW 1/4)
At proposed prod. zone (NE SE 1/4 according to chart)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE to chart
+ 18 miles south and east of Jensen, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 6200'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 700'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 5716'

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	54.5#	2500	To Surface
12-1/4"	9-5/8	40.0#	5300	As Required
8-3/4	7"	29#	14,800	As Required

It is proposed to drill this exploratory well to a depth of 15,500' to test the Dakota Formation:

Attachments:

Drilling Procedure
Certified Plat
Chevron Class IV BOPE requirements
Multi-surface use plan with Attachments
Proposed Completion Procedure
Equipment Location Schematic

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE _____

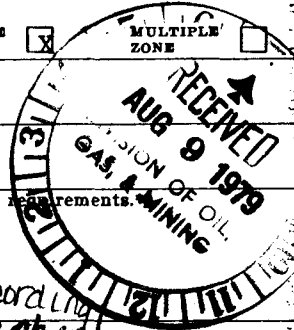
3- USGS
1- USGS-Vernal
2- State
1- JCB
1- ALF
1- WJM
1- Sec 723
1- File

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Engineering Assistant DATE August, 3, 1979
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



DRILLING PROCEDURE

Field Red Wash Well Unit 277 (43A-21C)

Location NW¼, SW¼, Section 21, T7N, R24E, Uintah County, Utah 2413 FSL, 252 FEL

Drill X Deepen Elevation: GL 5716 KB 5730 est Total Depth 15,500

Non-Op Interests

1. Name of surface formation: Uinta

2. Estimated tops of important geologic markers:

<u>Formation</u>	<u>Approximate Top</u>	<u>Formation</u>	<u>Approximate Top</u>
<u>Green River</u>	<u>2550 (3180)</u>	<u>Mesaverde</u>	<u>7230 (-1500)</u>
<u>Green River "K"</u>	<u>4930 (800)</u>	<u>Frontier</u>	<u>14,880 (9150)</u>
<u>Wasatch</u>	<u>5290 (440)</u>	<u>Dakota</u>	<u>15,160 (9430)</u>

3. Estimated depths of anticipated water, oil, gas or other mineral bearing formations:

<u>Formation</u>	<u>Depth</u>	<u>Type</u>	<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Uinta	400	Gas			
Green River	4930	Gas & Oil			
Mesaverde	7230	Gas			
Dakota	15,160	Gas			

4. Casing Program (0 = old, N = new):

	<u>Surface</u>	<u>O/N</u>	<u>Intermediate</u>	<u>O/N</u>	<u>Liner</u>	<u>O/N</u>
Hole Size	<u>17</u>		<u>12-1/4</u>		<u>8-3/4</u>	
Pipe Size	<u>13-3/8</u>	<u>N</u>	<u>9-5/8</u>	<u>N</u>	<u>7</u>	<u>N</u>
Grade	<u>K-55</u>		<u>K-55</u>		<u>P-110, S-95, N-80</u>	
Weight	<u>54.5</u>		<u>40.0</u>		<u>29#</u>	
Depth	<u>2500</u>		<u>5300</u>		<u>14,800</u>	
Cement	<u>To Surface</u>		<u>As Required</u>		<u>As Required</u>	
Time WOC	<u>12 hrs</u>		<u>12 hrs</u>		<u>12 hrs</u>	
Casing Test	<u>2000 psi</u>		<u>3000 psi</u>		<u>3000 psi</u>	
BOP						
Remarks						

5. BOPE: Chevron Class IV , 5000 psi MSP

6. Mud Program:

<u>Depth Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0-2500	gel-wtr	-	-	-
2500-5300	Gel-chem	+ 9.0	40 sec	+ 15 cc
5300-14,800	LSND	+ 9.0	40 sec	+ 10 cc
14,800-TD	Nat'l Gas			

Nitrates to be maintained at $200 \text{ PPM} \pm$ from surface csg. to TD. Refer to Geological Rpt.

7. Auxiliary Equipment: Drill pipe safety valve, PVT, kelly cocks, mud cleaner, degasser,
Automatic choke rotating head after 7" set.

8. Logging Program:

Surface Depth	DIL-SP, CNL-FDC-GR, BHC-GR-CAL, XXX HDT
Intermediate Depth	Same as above
Oil String Depth	Same as above
Total Depth	Same as above DIL-GR, FDC-GR, SNP-GR

9. Mud Logging Unit: 2 man from base surf csg to TD
Scales: 2" = 100' _____ to _____; 5" = 100' Base to TD
surf csg

10. <u>Coring & Testing Program:</u>			<u>Formations</u>	<u>Approximate Depth</u>	<u>Approximate Length of Core</u>
Core	<u>None</u>	DST <u>None</u>	_____	_____	_____
Core		DST	_____	_____	_____

11. Anticipated Bottom Hole Pressure/Temperatures/Hazards and plans for mitigating: None

12. Completion & Remarks: Pending results of cores, tests, and logs.

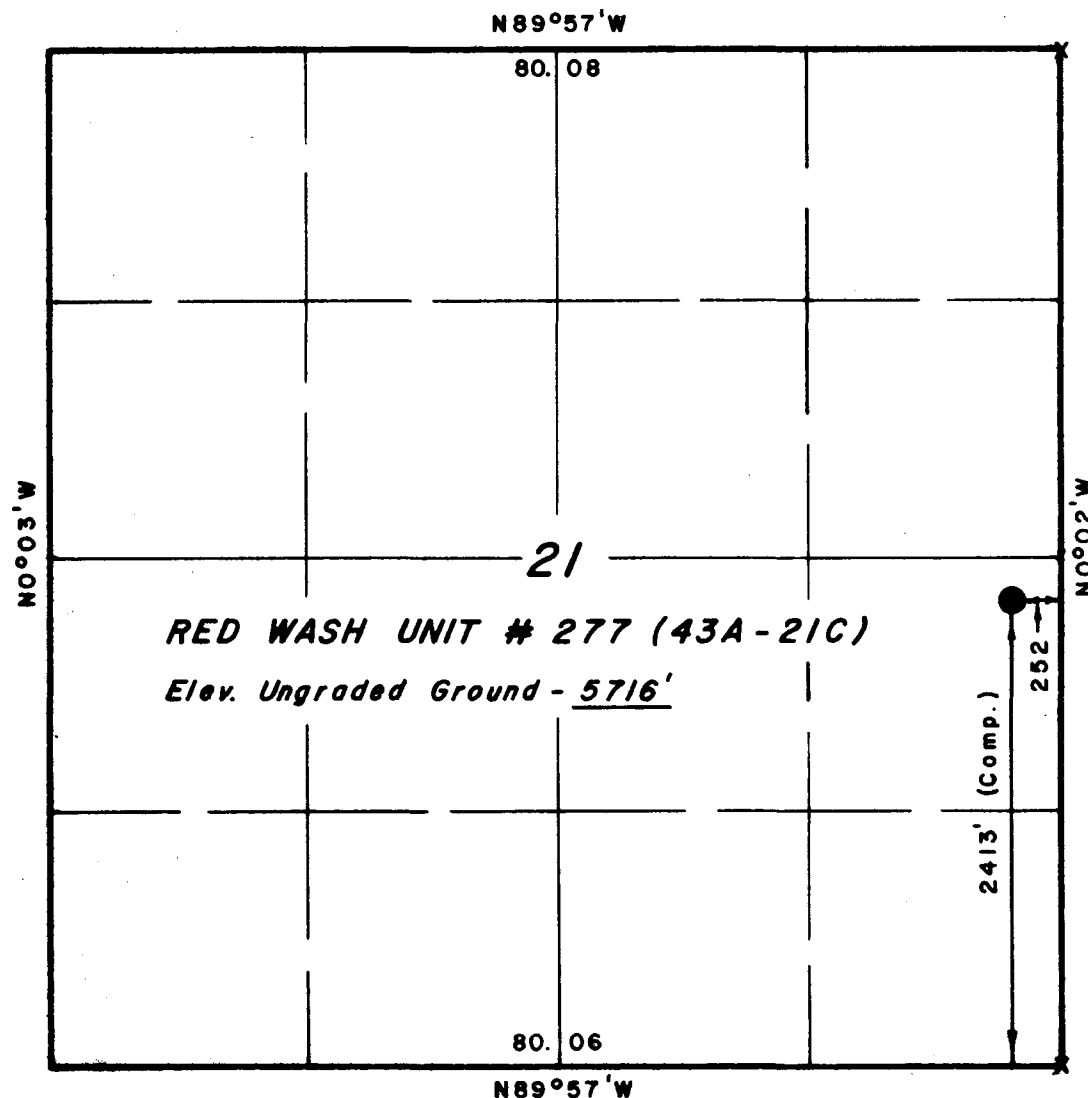
Division Development Geologist RCH Division Drilling Superintendent ZTC
Chief Development Geologist RCH Date Aug 6, 1979 WS-44
RCH RCL E.C.N. ST Aug 6, 1979

T 7 S, R 24 E, S.L.B.&M.

PROJECT
CHEVRON OIL CO.

Well location, **RED WASH**
UNIT # 277 (43A-21C), located
as shown in the NW1/4 SW1/4
Section 21, T7S, R24E, S.L.B.&M.
Uintah County, Utah.

NESE



X = Section Corners Located



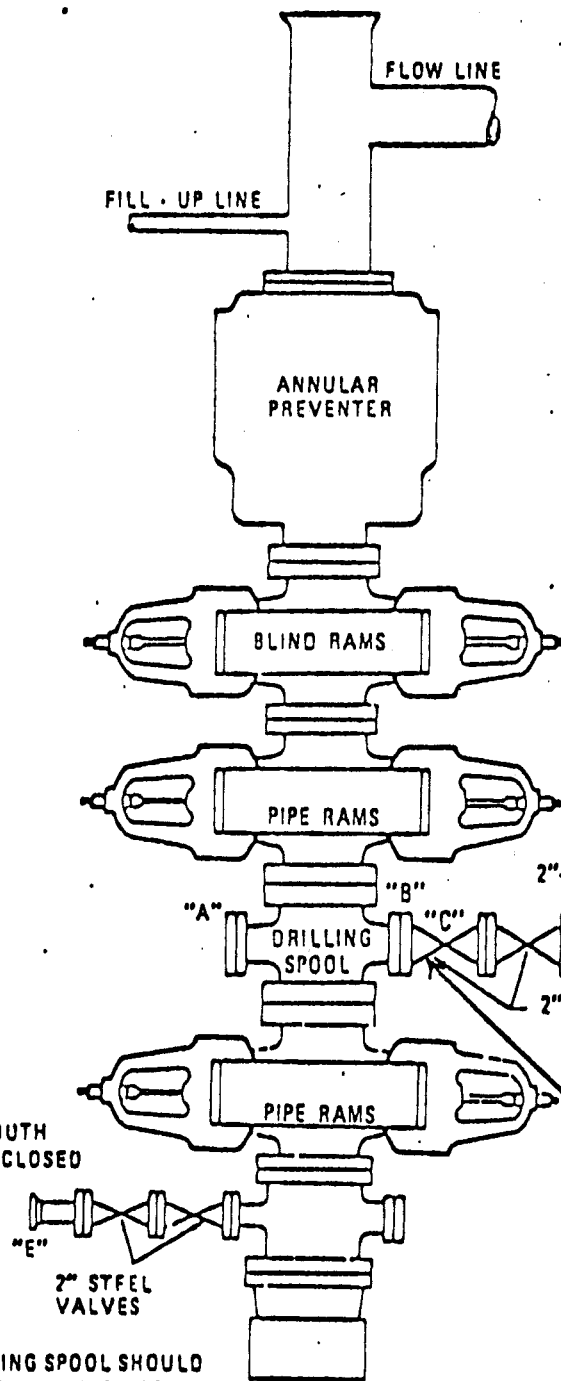
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	7/13/79
PARTY	R.K. D.B. D.K. S.B.	REFERENCES	GLO Plat
WEATHER	Clear & Hot	FILE	CHEVRON

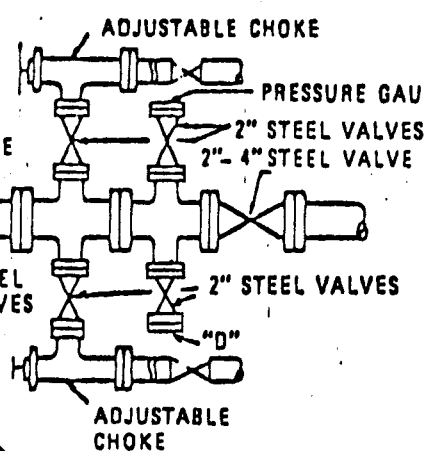


WHILE DRILLING, BOTH
VALVES ARE KEPT CLOSED

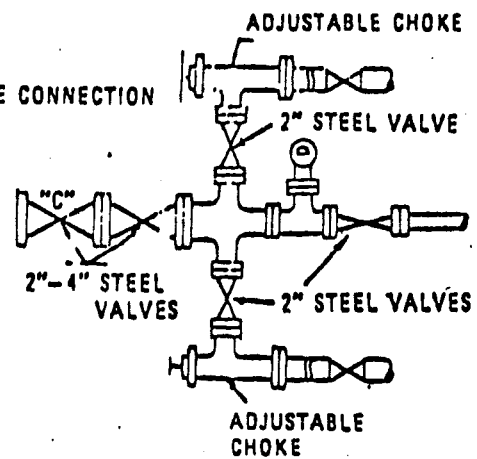
IF POSSIBLE, CASING SPOOL SHOULD
BE POSITIONED SO THAT THESE
VALVES ARE DIRECTLY UNDER THE
BARREL OF THE RAM PREVENTER.

FIGURE III-7
FOUR PREVENTER HOOKUP
CLASS IV

CHOKE MANIFOLD



ALTERNATE CHOKE MANIFOLD



HYDRAULIC VALVE

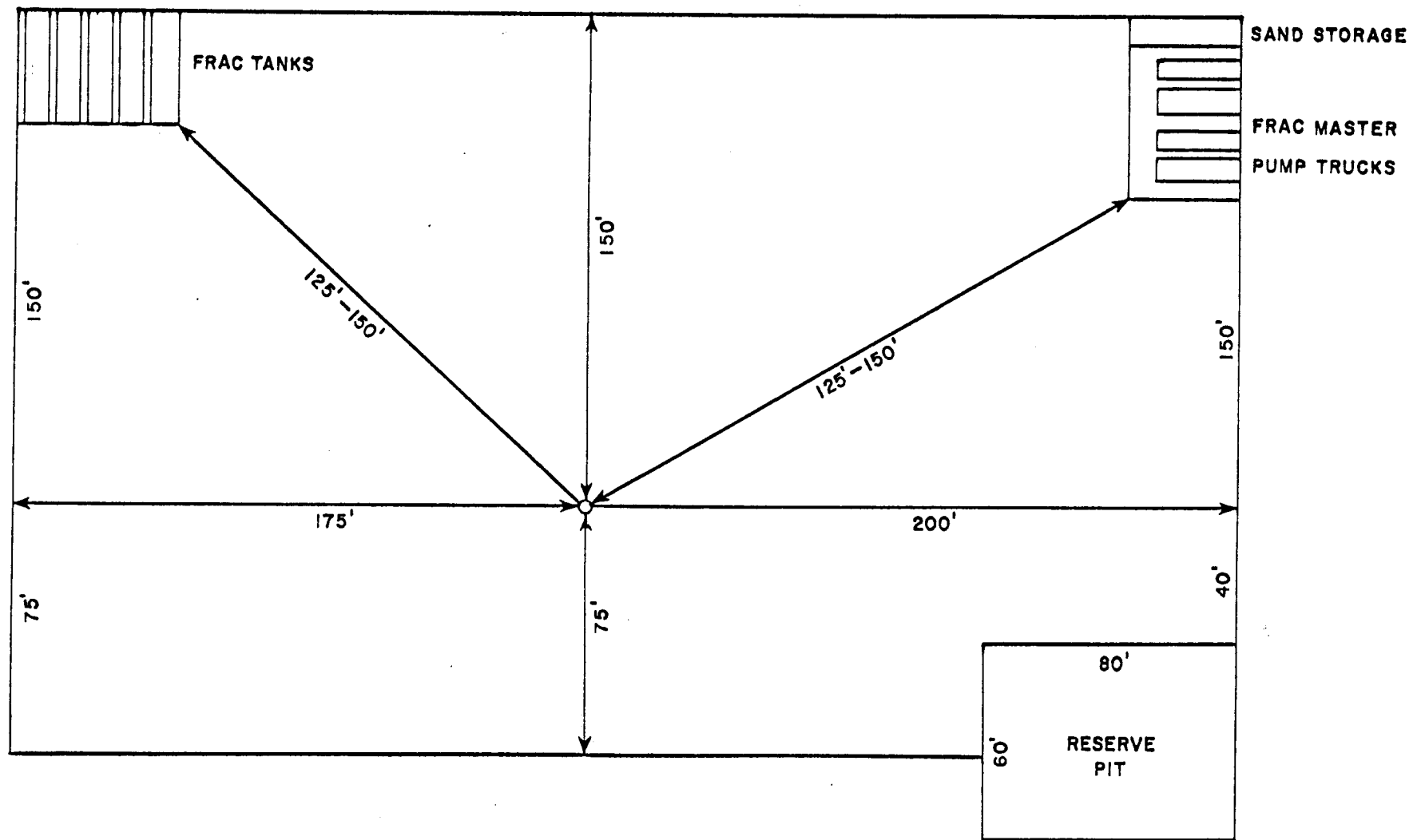
GENERAL INSTRUCTIONS ON PAGE FOLLOWING FIGURE III . 7

Revision 1 (1977)

III-13

RED WASH UNIT 277 (43A-21C)
COMPLETION PROCEDURE ON
DEVELOPMENT DRILLING WELLS

1. MI & RU. NU BOPE. Clean out to PBTD. Displace hole w/2% KCl water. Run Gamma Ray-CBL log.
2. RIH w/RBP, packer & tubing. Selectively straddle intervals as determined from log analysis of Green River Formation Sands. Swab down tubing to within 1000' of packer. RIH w/thru-tubing gun to perforate the selected Green River Formation intervals.
3. Acidize the perforated intervals w/inhibited 15% HCL acid containing additives for emulsion and scale control. Swab back spent acid-water immediately. Continue to swab to determine fluid content of perforated intervals.
4. Repeat Steps 2 and 3 to selectively test additional intervals in the Green River Formation. Any nonproductive intervals tested will be excluded by cement and/or a cast iron bridge plug.
5. Depending upon the results of the swab tests, the intervals tested will either be fracture stimulated individually or altogether. For an oil well completion, the fracture fluid will be a mixture of 60-70% Rangely crude oil and 30-40% KCl (2%) water. The fluid will be emulsified and gelled using appropriate additives. 100 mesh sand will be used as a fluid loss additive, and 20-40 mesh sand will be used as a proppant. The total amount of fluid and sand will vary according to the amount of net effective pay that will be treated. For a gas well completion, the fracture fluid will be a 2% KCl water containing additives and gelled with 5% methanol. 20-40 mesh sand will be used as a proppant. The total amount of fluid and sand will vary according to the amount of net effective pay that will be treated.
6. Clean out to PBTD.
7. Place well on production.



TYPICAL RED WASH LOCATION

RED WASH UNIT #277 (43A-21C)

RED WASH UNIT 277
UINTAH COUNTY, UTAH
MULTIPOINT SURFACE USE PLAN

1. Existing Roads

A-F. See Exhibit "A".

2. Planned Access Roads

See Exhibit "A". An archaeological surface survey of the proposed new access road and location was made July 24, 1979. A copy of the approval letter will be forwarded to your office.

- | | |
|--------------------------------------|---|
| A. Width | 20' |
| B. Maximum Grade - | 8% if necessary. |
| C. Turnouts - | None |
| D. Drainage Design - | Roads to be placed and constructed so that minimal drainage alterations will be made. |
| E. Cuts & Fills - | See Exhibit "C" |
| F. Surfacing Materials - | Gravel if necessary |
| G. Gates, Cattleguards, Fence Cuts - | None |

3. Location of Existing Wells

See Exhibit "B"

4. Location of Existing and/or proposed Facilities

- A. 1-6 See Exhibit B
- B. 1-4 Install new flowlines from subject well to appropriate collection station as shown on Exhibit B. Flowlines will be 2-1/2" plain end welded line pipe. Normal construction procedures will be used. When warranted, fences, flagging, etc., will be used to protect animals.
- C. Disturbed areas no longer needed for operations will be graded back to as near original state as possible. Drainage channels will be returned to original state and the areas will be reseeded as prescribed by appropriate BLM personnel.

5. Location and Type of Water Supply

- A-C. Fresh water supplied to the location will be piped through temporary surface lines from the appropriate collection stations or nearest fresh water line. Lines will be removed after drilling and completion operations. See Exhibit B.

6. Source of Construction Materials

A-D. All land is Federal land. All gravel, cement, etc; needed on the location will come commercially from the Vernal, Utah area. Access roads needed are shown on Exhibits "A".

7. Methods for Handling Waste Disposal

- A. Cuttings will be settled out in reserve pits.
- B. Drilling fluids will be retained in reserve tanks utilizing maximum recirculation during drilling operations. Following drilling the liquid waste will be evaporated and the remainder worked into the deep subsoil of the pit and the pit filled in and returned to natural grade.
- C. In the event fluids are produced, any oil will be retained until sold in tankage and any water produced will be retained until its quality is determined. The quality and quantity of water produced will then determine the necessary disposal procedure.
- D. Sewage will be disposed of in the subsurface with proper chemical treatment.
- E. Garbage and other combustible materials will be incinerated in a safe incinerator and non-combustibles will be retained in a portable metal disposal container and hauled periodically to an approved disposal dump.
- F. After the rig has moved from the well site, all waste material will be either buried or removed to an approved disposal dump.

8. Ancillary Facilities

Because of the accessibility to good roads and relatively close housing, we anticipate no need for ancillary facilities with the exception of two trailers to be located on the drilling location.

9. Well Site Layout

1-3 See Exhibit "C"

4. Pits ~~will~~ not be lined.

10. Plans for restoration of Surface

- A. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum. Any rock encountered in excavation will be disposed of beneath backfill to return surface to its present appearance and provide soil for seed growth.
- B. Reseeding will be performed as directed by the BLM.
- C. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- D. Any oil accumulation on the pit will be removed, burned or overhead flagged as dictated by then existing conditions.

- E. Some completion operations may extend into the winter months. Under normal conditions, rehabilitation could not be commenced until April or May and should be completed by the end of the Summer of 1979.
11. Other Information
- A. The wells are located on hilly terrain. Vegetation consists of small sagebrush, natural grasses and some small trees on and around the locations. The soil is a poorly developed semi-arid thin topsoil layer over the Uintah formation.
- B. Surface use activities other than the oil well facilities consists of livestock grazing as assigned by BLM.
- C. There are no water bodies or occupied dwellings near the well sites. Archaeological, historical, and cultural sites may be determined by the BLM during the field inspection.
12. Company Representative
- R. W. Patterson
P. O. Box 599
Denver, Colorado 80201
(303) 759-7000
13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chevron U.S.A. Inc. and its Contractors and Subcontractors in conformity with this plan and the terms and conditions under which it is approved.
- 8/1/79
Date
- R. W. Patterson
R. W. PATTERSON, Drilling Supervisor

FILE # 27-43A-212

MAP "A"



SCALE - 1" = 4 MI.



CHEVRON U.S.A. INC.
PROPOSED LOCATION
RED WASH UNIT 277-43A-21C

EXHIBIT A

TOPO. MAP "B"



SCALE 1" = 2000'

ROAD CLASSIFICATION

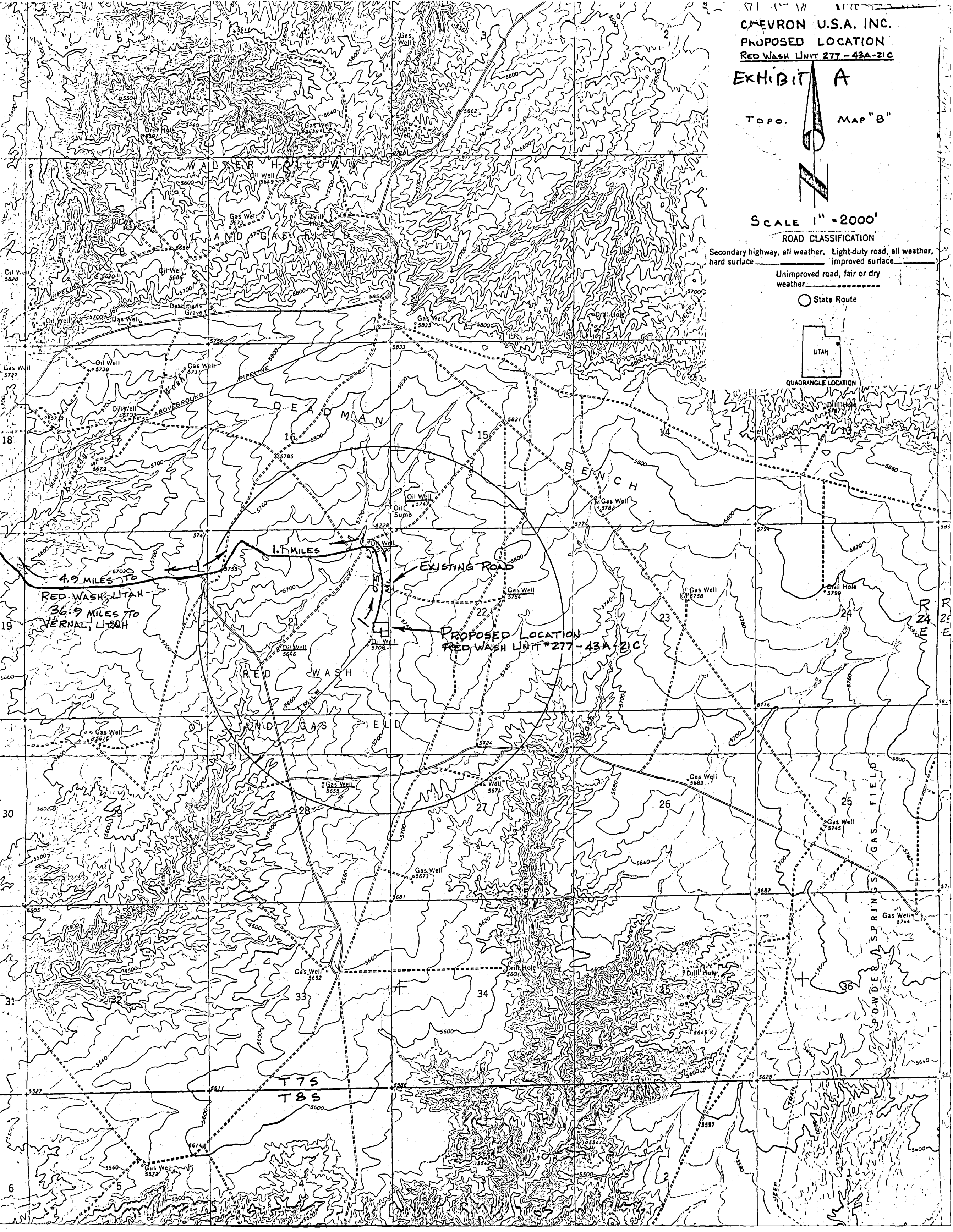
Secondary highway, all weather, hard surface Light-duty road, all weather, improved surface

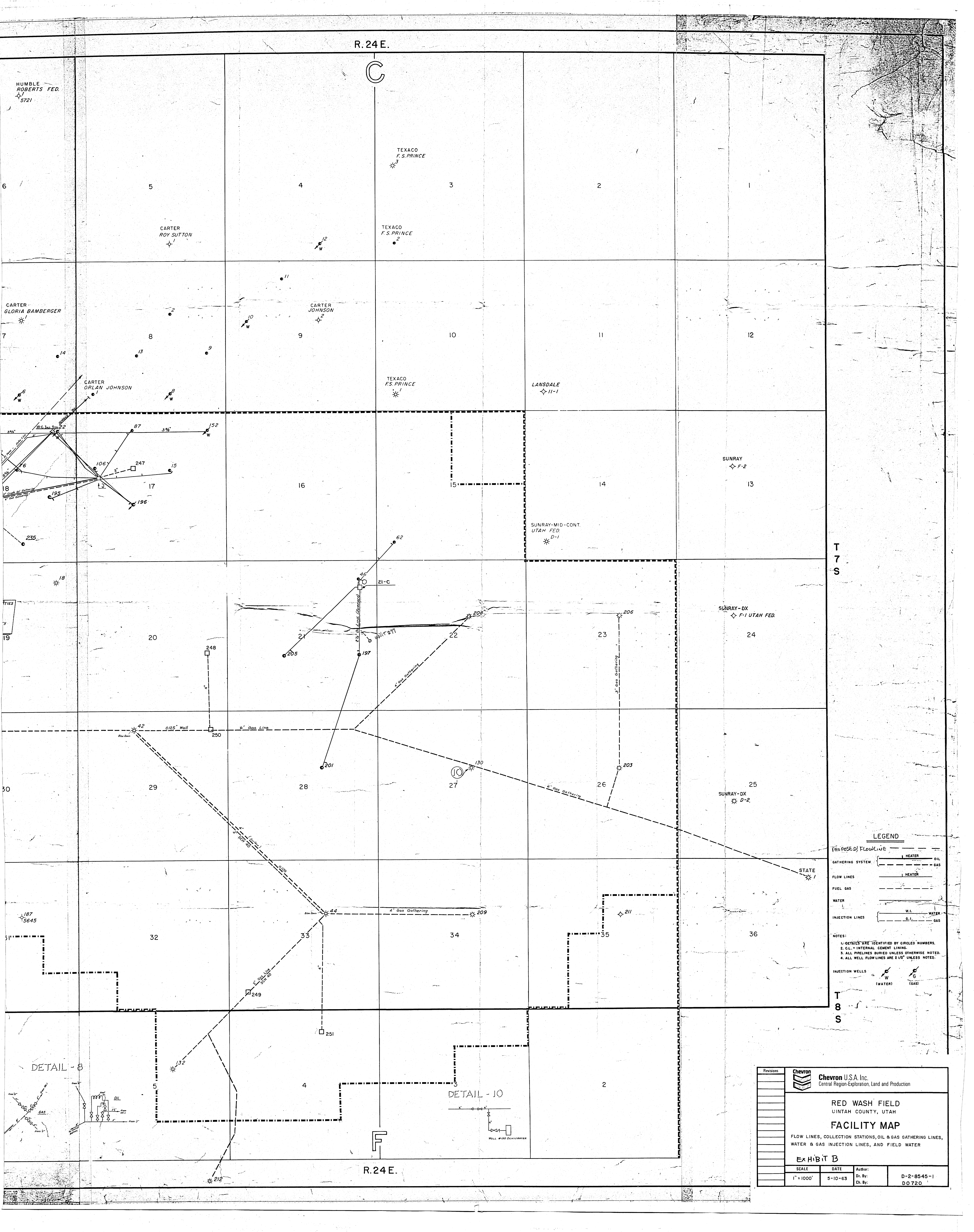
Unimproved road, fair or dry weather

State Route



QUADRANGLE LOCATION





T
7
S

T
8
S

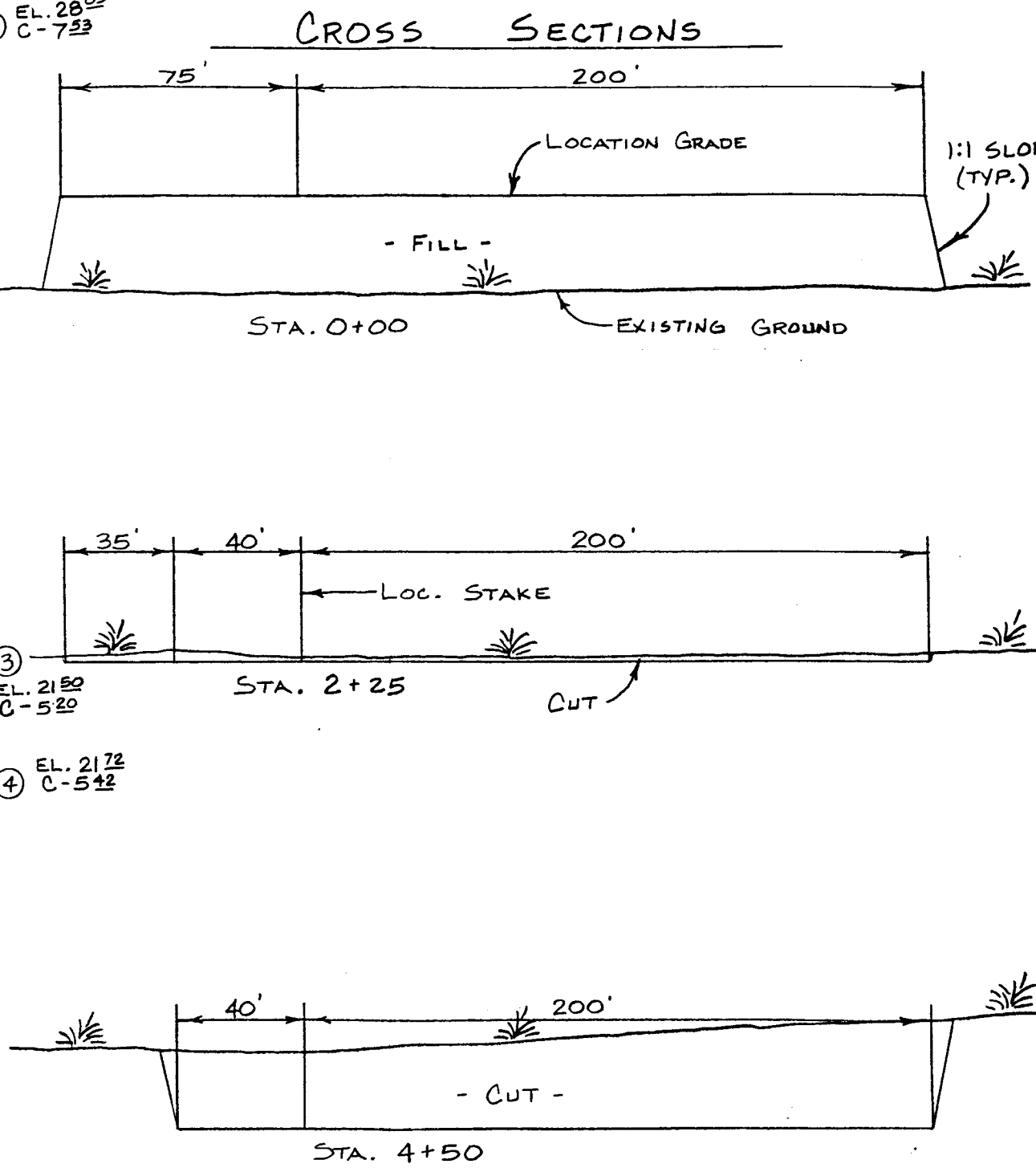
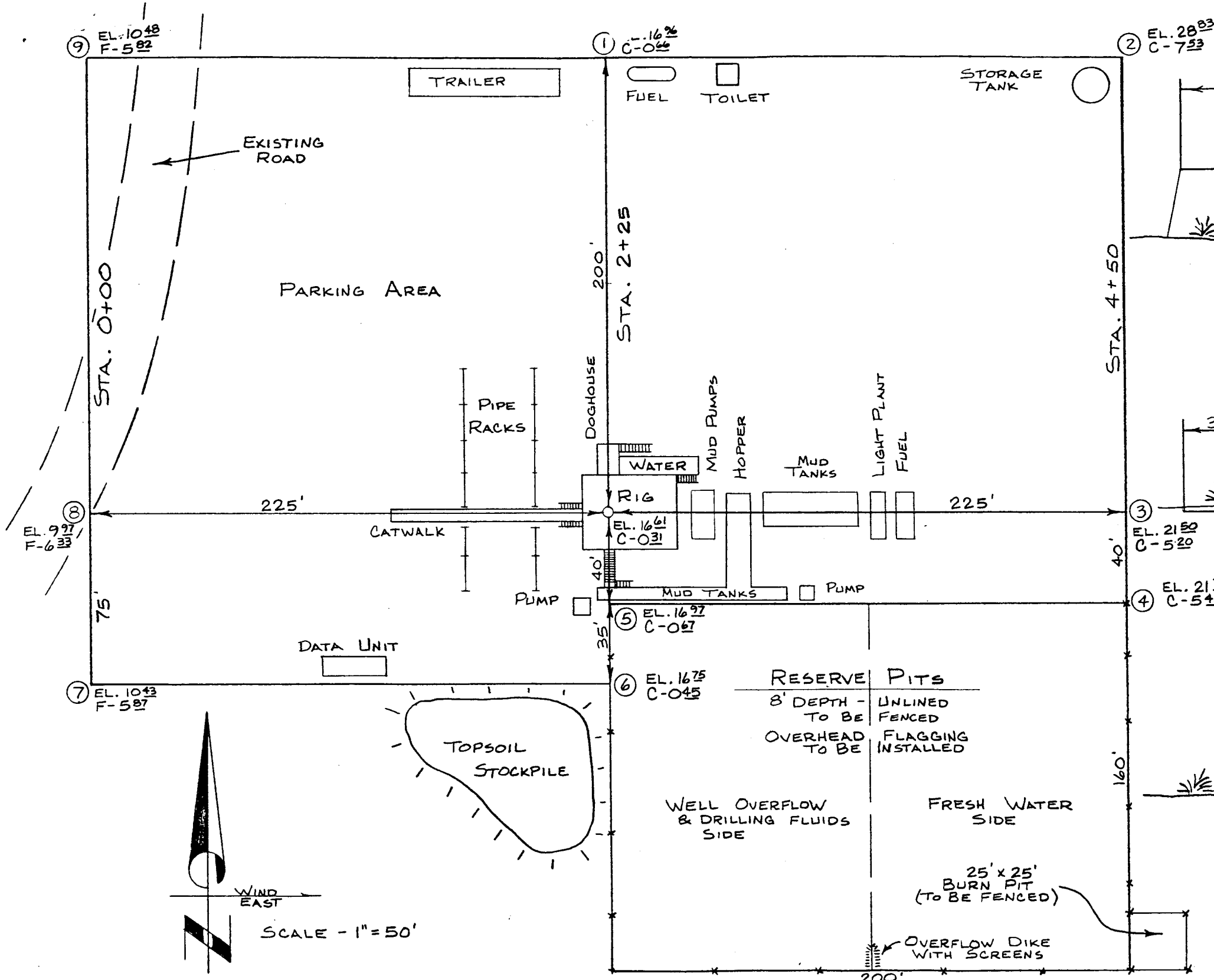
LEGEND

PROPOSED FLOW LINE
GATHERING SYSTEM
FLOW LINES
FUEL GAS
WATER
INJECTION LINES

NOTES:
1. DETAILS ARE IDENTIFIED BY CIRCLED NUMBERS.
2. C.L. = INTERNAL CEMENT LINING.
3. ALL PIPELINES BURIED UNLESS OTHERWISE NOTED.
4. ALL WELL FLOW LINES ARE 1\"/>

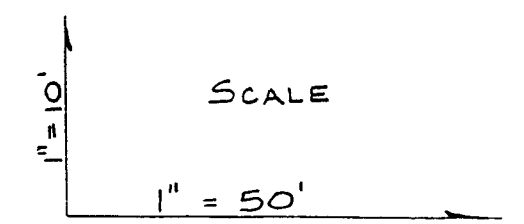
INJECTION WELLS
(WATER)
(GAS)

Revisions		Chevron		Chevron U.S.A. Inc. Central Region-Exploration, Land and Production	
RED WASH FIELD UINTAH COUNTY, UTAH					
FACILITY MAP					
FLOW LINES, COLLECTION STATIONS, OIL & GAS GATHERING LINES, WATER & GAS INJECTION LINES, AND FIELD WATER					
EXHIBIT B					
SCALE	DATE	Author:	D-2-8545-1		
1" = 1000'	5-10-63	Dr. By:	00720		
		Ch. By:			



APPROX. YARDAGES

CUT - 7,425	CU. YDS.
FILL - 7,111	CU. YDS.



CHEVRON U.S.A., INC.

LOCATION LAYOUT

RED WASH UNIT #277 - 43A-21C
SECTION 21, T7S, R24E, S.L.B. & M.

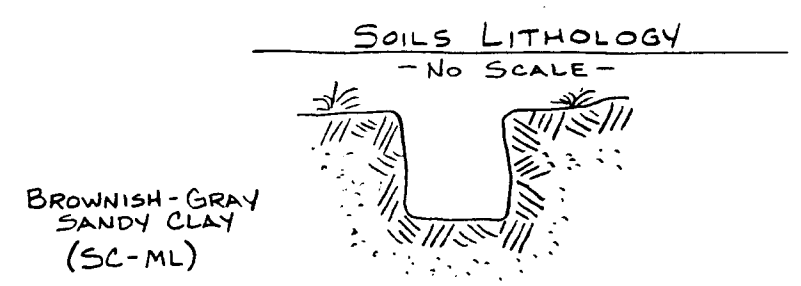


EXHIBIT C

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

**** FILE NOTATIONS ****

Date: August 9, 1979

Operator: Chvron U.S.A. Inc.

Well No: Red Wash Unit 277 (43A-21C)

Location: Sec. 21 T. 7S R. 24E County: Uintah

File Prepared: ☒

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

✓ API Number: 43-047-30607

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: M. J. Minder 9-5-79

Remarks:

Director: [Signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

Surface Casing Change ☐
to _____

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In _____ Unit

Other:

☒ Letter Written/Approved
Wm

*Unit approval
letter*

*Unit
plotted*

September 6, 1979

Chevron U.S.A. Incorporated
PO Box 599
Denver, Colorado 80201

Re: Red Wash Unit 277 (43A-21C)
Sec. 21 T. 7S., R. 24E.,
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to ~~gas~~ well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
Home: 876-3001
Office: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-30607.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

MTM:btm

cc: USGS

October 9, 1980

Chevron U.S.A. Incorporated
P.O. Box 599
Denver, Colorado 80201

RE: Well No. Red Wash Unit 277
(43A-21C)
Sec. 21, T. 7S, R. 24E.,
Uintah County, Utah

Gentlemen:

In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL
CLERK TYPIST

/bjh

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR. CATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Red Wash

8. FARM OR LEASE NAME

9. WELL NO.

277 (43A-21C)

10. FIELD AND POOL, OR WILDCAT

Red Wash-Dakota

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 21, T7S, R24E, SLB&M

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

1. OIL ☐ GAS ☒ OTHER
WELL WELL

2. NAME OF OPERATOR

Chevron U.S.A., Inc.

3. ADDRESS OF OPERATOR

P. O. Box 599, Denver, CO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2413' FSL & 252' FEL (NW $\frac{1}{4}$ SW $\frac{1}{4}$)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 5716'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

Well Status

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please cancel our permit to drill Red Wash Unit #277 (43A-21C)

LOCATION ABANDONED

18. I hereby certify that the foregoing is true and correct

SIGNED

Don M. Leonard

TITLE Engineering Assistant

DATE 10/21/80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: